Application No.	Applicant(s)
10/767.178	YAMAWAKI, HIDEKI
Examiner	Art Unit
Jennifer M. Kennedy	2812
(OR REMAINS) CLOSED in this a ) or other appropriate communication (IGHTS. This application is subject	
<u>004</u> .	
ne Examiner.	
e been received. e been received in Application No. cuments have been received in thi of this communication to file a repl	<u>10/338,647</u> . s national stage application from the y complying with the requirements
	R'S AMENDMENT or NOTICE OF ration is deficient.
son's Patent Drawing Review (PTG  S Amendment / Comment or in the  1.84(c)) should be written on the draw the header according to 37 CFR 1.12  Doit of BIOLOGICAL MATERIAL	Office action of  vings in the front (not the back) of 1(d).  . must be submitted. Note the
6. ☐ Interview Summar Paper No./Mail D 08), 7. ☐ Examiner's Amen	
	ears on the cover sheet with the GOR REMAINS) CLOSED in this as a or other appropriate communication and MPEP 1308.  Out.  This application is subject and MPEP 1308.  Out.  The Examiner.  The been received.  The been received in Application No. ocuments have been received in this application.  The communication to file a replayment of this application.  The standard EXAMINE are reason(s) why the oath or declayed as the submitted.  The standard Comment or in the communication to a file a replayment of this application.  The standard EXAMINE are reason(s) why the oath or declayed as the submitted.  The standard Comment or in the communication to a file a replayment of this application.  The standard EXAMINE are reason(s) why the oath or declayed as the submitted.  The standard Comment or in the communication to a file a replayment of this application.  The standard EXAMINE are reason(s) why the oath or declayed as the submitted.  The standard EXAMINE are reason(s) why the oath or declayed as the submitted.  The standard EXAMINE are reason(s) why the oath or declayed as the submitted.  The standard EXAMINE are reason(s) why the oath or declayed as the submitted.  The standard EXAMINE are replayed as the submitted are replayed as the submitted.  The standard EXAMINE are replayed as the submitted are replayed

Application/Control Number: 10/767,178 Page 2

Art Unit: 2812

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: the prior art, either singly or in combination, fails to anticipate or render obvious, the method including the limitations of realizing a critical state of oxidation-reduction reaction on the surface of a layer that takes a metal state in a reducing ambient and an oxide state in an oxidizing ambient and shows a catalytic action in the metal state, said oxidizing gas and said vapor being supplied into said furnace with a proportion set such that there is caused an equilibrium between an oxidation reaction caused by said oxidizing gas and a reducing reaction caused by said vapor on said surface of said layer in combination with the other limitations of independent claim 15.

Further, the prior art, either singly or in combination, fails to anticipate or render obvious, the method including the limitations of determining the state of an oxidation-reduction reaction taking place on a layer of a material that takes a metal state in a reducing ambient and an oxide state in an oxidizing ambient and shows a catalytic action in the metal state, supplying an oxidizing gas, and a vapor of an organic solvent as the reducing gas, into said process space, determining a ratio of said oxidizing gas and said reducing gas that provides an equilibrium condition in which an oxidizing reaction and a reducing reaction equilibrate in combination with the other limitations of independent claim 16.

Finally, the prior art, either singly or in combination, fails to anticipate or render obvious, the apparatus for forming a ferroelectric film, including the limitations of a controller controlling said first through third sources, the controller controlling said first

Application/Control Number: 10/767,178 Page 3

Art Unit: 2812

and second sources of the oxidizing and reducing gas in response to an output of said detector such that there is realized a critical state of oxidation-reduction reaction taking place on a substrate, the detector determining the state of the oxidation-reduction reaction according to the method as claimed in claim 16, in combination with the other limitations of claim 17.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Kennedy whose telephone number is (571) 272-1672. The examiner can normally be reached on Mon.-Fri. 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/767,178

Art Unit: 2812

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 4

gnul.

imk

John F. Niebling
Supervisory Patent Examiner
Technology Center 2800